Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_

**Questions to Go Along with the Unit 8 Notes, Part 2 – Meiosis**

Ms. OK, AP Biology, 2014-2015

1. Compare and contrast metaphase I and metaphase II of meiosis.

1. Compare and contrast anaphase I and anaphase II of meiosis.
2. Compare and contrast the daughter cells of mitosis vs. meiosis. (Ex: Are they diploid or haploid? What type of cells are they? How many daughter cells are formed? Are the daughter cells genetically identical?)
3. What is crossing over? Why is it important for maintaining genetic variation in a population?
4. Let’s say an egg cell has 18 chromosomes. How many chromosomes did the original parent cell contain? Explain your reasoning.
5. Why do polar bodies form during oogenesis (meiosis in human females)? Why don’t polar bodies form during spermatogenesis (meiosis in human males)?
6. How many functional eggs are created during one round of oogenesis? How many functional sperm are created during one round of spermatogenesis?